

# ANDEROL PRODUCT DATA SHEET

## ROYCO® 64

SYNTHETIC GREASE FOR HIGH AND LOW TEMPERATURE  
MOLYBDENUM DISULFIDE, LITHIUM BASE

### GENERAL INFORMATION

ROYCO 64 is a lithium-12 hydroxy stearate thickened grease formulated with microfine molybdenum disulfide and a thermally stable ester based synthetic oil. Modern additives are utilized to provide high load carrying, rust and oxidation protection, EP performance, and shear stability. Microfine particles of "Moly" adhere and penetrate metal surfaces thereby providing lubrication and antiseize protection even when the oil component is removed or there is a possibility of inadequate lubrication due to mechanical spread out of the lubricant.

### TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	ROYCO 64
Kinematic Viscosity, cSt (Base oil)	ASTM D-445	
@ 100°C		2.7
@ 40°C		9.1
Flash Point, °F(°C)	ASTM D-92	415 (213)
Molybdenum Disulfide, wt. %	Report	5.0
Penetration	ASTM D-1403	
Unworked		272
Worked		282
Worked Stability, 100,000 strokes	FTM 313	304
Dropping Point, °F(°C)	ASTM D-2265	387(197)
Copper Corrosion	ASTM D-4048	1b
Evaporation, % wt.	ASTM D-2595	0.75
Oil Separation, %. 30 hrs, 100°C	FTM 321	3.1
Low Temperature Torque, NM, -73°C	ASTM D-1478	
Starting		0.32
Running		0.03
Load Wear Index	ASTM D-2596	55

**ROYCO 64**

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**For more information please refer to the relevant Material Safety Data Sheet accompanying each product.**

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## APPLICATIONS

ROYCO 64 is designed for use on sliding steel on steel surfaces and low to moderate speed antifriction bearings carrying high unit loads. ROYCO 64 is especially recommended for use in extreme low temperature (-100°F) and high temperatures up to 275°F.

## ADVANTAGES

- Wide operating temperature range
- Additives provide high load carrying properties
- Prevents rust and oxidation
- Excellent anti-seize protection

## COMPATABILITY

ROYCO 64 should not be used in high-speed antifriction bearings without prior evaluation. The persistence of the molybdenum disulfide and the high penetrating properties of the synthetic base oil make this material difficult to remove from surfaces. In addition, the synthetic oil in ROYCO 64 may soften natural rubber and neoprene as well as some paints.

## APPROVALS

ROYCO 64 meets all requirements of MIL-G-21164D.

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